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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/797,668	03/10/2004		Hoi Shan Kwan	17329-002001 / 04F050US	4157
26161	7590 03/13/2006		EXAMINER		
FISH & RICHARDSON PC P.O. BOX 1022			GOLDBERG, JE.	ANINE ANNE	
MINNEAPOLIS, MN 55440-1022		55440-1022		ART UNIT	PAPER NUMBER
	,			1634	

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/797,668	KWAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jeanine A. Goldberg	1634	
The MAILING DATE of this communication ap	pears on the cover sheet with	the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICA 136(a). In no event, however, may a repi will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 10 N	March 2004.		
	s action is non-final.		
3) Since this application is in condition for allowa		s, prosecution as to the merits is	
closed in accordance with the practice under	•	·	
Disposition of Claims			
4)⊠ Claim(s) 1-51 is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>1-51</u> are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	•	-	•
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen			
2. Certified copies of the priority documen			
3. Copies of the certified copies of the price		eceived in this National Stage	
application from the International Burea * See the attached detailed Office action for a list		oceived	
See the attached detailed Office action for a list	t of the certified copies not re	oorrou.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		mmary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 		Mail Date https://www.mail.com/PTO-152)	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Other:		

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-15, 29-41, drawn to a method for preparing an array and method of using the array, classified in class 435, subclass 6.
 - Claims 16-28, 42-51, drawn to an array, classified in class 536, subclass
 23.1 or 435/287.2.
- 2. The inventions are distinct, each from the other because of the following reasons:
- A) Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the array may be used in a materially different method and made by a materially different method. For example the DNA fragments may be generated in situ using masks. Moreover the array may be used in purification and isolation methods and compound screening methods.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by the different classifications and their divergent subject matter, restriction for examination purposes as indicated is proper.

Further a search of each of these inventions would not be coextensive of a search for each of the other inventions.

Restriction Requirement Applicable to All Groups Requiring more than one Patentably Distinct Sequence:

SEQUENCE RESTRICTION REQUIREMENT

Additionally, each group named above is subject to further restriction.

Group I and Group II are directed to a very large number of DNA fragments. The fragments are from different variable regions, and different plants.

Each group detailed above reads on patentably distinct sequence of nucleic and amino acid sequence. Each sequence is patentably distinct because they are unrelated sequences, and a further restriction is applied to each group.

Each sequence is patentably distinct because they are unrelated sequences, i.e. these sequences are unrelated because the protein encoded by these sequences differ in structure and in function and in biological activity. Further, even where the nucleic acid changes have no effect on protein structure or function, these sequences themselves represent allelic variations which have different diagnostic and therapeutic implications.

The claims encompasses different combinations of variable regions. For the claims drawn to a combination of variable regions, namely one or more variable regions. A restriction is applied to each Group. As provided in MPEP 803.04, "Applicants will be required to select one combination for examination." The selected combination will be

searched and examined. A combination may be as few as a single variable regions or as many variable regions as the combination of all the recited genes. Applicant is required to specifically indicate the single combination desired. All combinations containing the allowable sequences and any patentably indistinct sequences will be rejoined and allowed. Rejoinder will be permitted for claims requiring any allowable sequence(s). Any claims which have been restricted and nonselected and which are limited to the allowable sequence(s) will be rejoined and examined.

For an elected group drawn to a nucleic acid sequence, the applicant must further elect a nucleic acid sequence or one SPECIFIC combination of nucleic acid sequence.

Applicant is further required to distinctly point out the location in the drawings, figures, or SEQ IDS of the instant application to which the elected sequence is drawn. Please include in the selection of a sequence or specific combination of sequence the SEQ ID(s), the Genebank numbers) (or any other identifier), the table or figure number, and the row or column location in the table.

This is <u>NOT</u> an election of species. Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequences are presumed to represent an independent and distinct invention, subject to restriction requirement pursuant to 35 USC 121 and 37 CFR 1.141. By statute, "[i]f two or more independent and distinct inventions are claimed in one

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application, the Commissioner may require the application to be restricted to one of the inventions." 35 U.S.C. 121. Pursuant to this statute, the rules provide that '[I]f two or more independent and distinct inventions are claimed in a single application, the examiner in his action shall require the applicant... to elect that invention to which his claim shall be restricted." 37 CFR 1.142 (a). See also 37 CFR 1.141(a). It is noted that searching more than one of the claimed patentably distinct sequences represents a serious burden for the office.

Should applicant traverse on the ground that the nucleic acids and/or combinations of nucleic acids are not patentably distinct, applicant should submit evident or identify such evidence now of record showing the species to be obvious variant or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other inventions.

Notice for Rejoinder

4. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final

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rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Jeanine Goldberg whose telephone number is (571) 272-0743. The examiner can normally be reached Monday-Friday from 7:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached on (571) 272- 0745.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Central Fax Number for official correspondence is (571) 273-8300.

Jeanine Goldberg

Primary Examiner March 7, 2006